

libbluray

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Contents

1	Class Index	1
1.1	Class List	1
2	File Index	3
2.1	File List	3
3	Class Documentation	5
3.1	bd_chapter Struct Reference	5
3.2	bd_clip Struct Reference	5
3.3	BD_EVENT Struct Reference	6
3.4	bd_stream_info Struct Reference	6
3.5	bd_title_info Struct Reference	7
3.6	BLURAY_DISC_INFO Struct Reference	7
4	File Documentation	9
4.1	src/libbluray/bluray.h File Reference	9
4.1.1	Detailed Description	13
4.1.2	Define Documentation	13
4.1.2.1	TITLES_ALL	13
4.1.2.2	TITLES_FILTER_DUP_CLIP	13
4.1.2.3	TITLES_FILTER_DUP_TITLE	13
4.1.2.4	TITLES_RELEVANT	13
4.1.3	Function Documentation	13
4.1.3.1	bd_chapter_pos	13

4.1.3.2	bd_close	14
4.1.3.3	bd_free_title_info	14
4.1.3.4	bd_get_current_angle	14
4.1.3.5	bd_get_current_chapter	14
4.1.3.6	bd_get_current_title	15
4.1.3.7	bd_get_disc_info	15
4.1.3.8	bd_get_event	15
4.1.3.9	bd_get_meta	15
4.1.3.10	bd_get_playlist_info	16
4.1.3.11	bd_get_title_info	16
4.1.3.12	bd_get_title_size	16
4.1.3.13	bd_get_titles	17
4.1.3.14	bd_menu_call	17
4.1.3.15	bd_mouse_select	17
4.1.3.16	bd_open	18
4.1.3.17	bd_play	18
4.1.3.18	bd_play_title	18
4.1.3.19	bd_read	19
4.1.3.20	bd_read_ext	19
4.1.3.21	bd_register_overlay_proc	19
4.1.3.22	bd_seamless_angle_change	20
4.1.3.23	bd_seek	20
4.1.3.24	bd_seek_chapter	20
4.1.3.25	bd_seek_mark	20
4.1.3.26	bd_seek_time	21
4.1.3.27	bd_select_angle	21
4.1.3.28	bd_select_playlist	21
4.1.3.29	bd_select_title	22
4.1.3.30	bd_set_player_setting	22
4.1.3.31	bd_tell	22
4.1.3.32	bd_tell_time	23

4.1.3.33 bd_user_input

23

Chapter 1

Class Index

1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

bd_chapter	5
bd_clip	5
BD_EVENT	6
bd_stream_info	6
bd_title_info	7
BLURAY_DISC_INFO	7

Chapter 2

File Index

2.1 File List

Here is a list of all documented files with brief descriptions:

src/libbluray/ bluray.h	9
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Chapter 3

Class Documentation

3.1 `bd_chapter` Struct Reference

Public Attributes

- `uint32_t idx`
- `uint64_t start`
- `uint64_t duration`
- `uint64_t offset`

The documentation for this struct was generated from the following file:

- `src/libbluray/bluray.h`

3.2 `bd_clip` Struct Reference

Public Attributes

- `uint32_t pkt_count`
- `uint8_t still_mode`
- `uint16_t still_time`
- `uint8_t video_stream_count`
- `uint8_t audio_stream_count`
- `uint8_t pg_stream_count`
- `uint8_t ig_stream_count`
- `uint8_t sec_audio_stream_count`
- `uint8_t sec_video_stream_count`

- [BLURAY_STREAM_INFO](#) * **video_streams**
- [BLURAY_STREAM_INFO](#) * **audio_streams**
- [BLURAY_STREAM_INFO](#) * **pg_streams**
- [BLURAY_STREAM_INFO](#) * **ig_streams**
- [BLURAY_STREAM_INFO](#) * **sec_audio_streams**
- [BLURAY_STREAM_INFO](#) * **sec_video_streams**

The documentation for this struct was generated from the following file:

- [src/libbluray/bluray.h](#)

3.3 BD_EVENT Struct Reference

Public Attributes

- **uint32_t event**
- **uint32_t param**

The documentation for this struct was generated from the following file:

- [src/libbluray/bluray.h](#)

3.4 bd_stream_info Struct Reference

Public Attributes

- **uint8_t coding_type**
- **uint8_t format**
- **uint8_t rate**
- **uint8_t char_code**
- **uint8_t lang** [4]
- **uint16_t pid**
- **uint8_t aspect**

The documentation for this struct was generated from the following file:

- [src/libbluray/bluray.h](#)

3.5 bd_title_info Struct Reference

Public Attributes

- uint32_t **idx**
- uint32_t **playlist**
- uint64_t **duration**
- uint32_t **clip_count**
- uint8_t **angle_count**
- uint32_t **chapter_count**
- [BLURAY_CLIP_INFO](#) * **clips**
- [BLURAY_TITLE_CHAPTER](#) * **chapters**

The documentation for this struct was generated from the following file:

- [src/libbluray/bluray.h](#)

3.6 BLURAY_DISC_INFO Struct Reference

Public Attributes

- uint8_t **bluray_detected**
- uint8_t **first_play_supported**
- uint8_t **top_menu_supported**
- uint32_t **num_hdmv_titles**
- uint32_t **num_bdj_titles**
- uint32_t **num_unsupported_titles**
- uint8_t **aacs_detected**
- uint8_t **libaacs_detected**
- uint8_t **aacs_handled**
- uint8_t **bdplus_detected**
- uint8_t **libbdplus_detected**
- uint8_t **bdplus_handled**

The documentation for this struct was generated from the following file:

- [src/libbluray/bluray.h](#)

Chapter 4

File Documentation

4.1 src/libbluray/bluray.h File Reference

```
#include <stdint.h>
```

Classes

- struct [bd_stream_info](#)
- struct [bd_clip](#)
- struct [bd_chapter](#)
- struct [bd_title_info](#)
- struct [BLURAY_DISC_INFO](#)
- struct [BD_EVENT](#)

Defines

- #define [TITLES_ALL](#) 0
- #define [TITLES_FILTER_DUP_TITLE](#) 0x01
- #define [TITLES_FILTER_DUP_CLIP](#) 0x02
- #define [TITLES_RELEVANT](#) (TITLES_FILTER_DUP_TITLE | TITLES_FILTER_DUP_CLIP)
- #define [BLURAY_TITLE_FIRST_PLAY](#) 0xffff
- #define [BLURAY_TITLE_TOP_MENU](#) 0

Typedefs

- typedef struct bluray [BLURAY](#)

- typedef struct [bd_stream_info](#) **BLURAY_STREAM_INFO**
- typedef struct [bd_clip](#) **BLURAY_CLIP_INFO**
- typedef struct [bd_chapter](#) **BLURAY_TITLE_CHAPTER**
- typedef struct [bd_title_info](#) **BLURAY_TITLE_INFO**
- typedef void(* [bd_overlay_proc_f](#))(void *, const struct bd_overlay_s *const)

Enumerations

- enum **bd_stream_type_e** {
BLURAY_STREAM_TYPE_VIDEO_MPEG1 = 0x01, **BLURAY_STREAM_TYPE_VIDEO_MPEG2** = 0x02, **BLURAY_STREAM_TYPE_AUDIO_MPEG1** = 0x03, **BLURAY_STREAM_TYPE_AUDIO_MPEG2** = 0x04,
BLURAY_STREAM_TYPE_AUDIO_LPCM = 0x80, **BLURAY_STREAM_TYPE_AUDIO_AC3** = 0x81, **BLURAY_STREAM_TYPE_AUDIO_DTS** = 0x82, **BLURAY_STREAM_TYPE_AUDIO_TRUEHD** = 0x83,
BLURAY_STREAM_TYPE_AUDIO_AC3PLUS = 0x84, **BLURAY_STREAM_TYPE_AUDIO_DTSHD** = 0x85, **BLURAY_STREAM_TYPE_AUDIO_DTSHD_MASTER** = 0x86, **BLURAY_STREAM_TYPE_VIDEO_VC1** = 0xea,
BLURAY_STREAM_TYPE_VIDEO_H264 = 0x1b, **BLURAY_STREAM_TYPE_SUB_PG** = 0x90, **BLURAY_STREAM_TYPE_SUB_IG** = 0x91, **BLURAY_STREAM_TYPE_SUB_TEXT** = 0x92 }
- enum **bd_video_format_e** {
BLURAY_VIDEO_FORMAT_480I = 1, **BLURAY_VIDEO_FORMAT_576I** = 2, **BLURAY_VIDEO_FORMAT_480P** = 3, **BLURAY_VIDEO_FORMAT_1080I** = 4,
BLURAY_VIDEO_FORMAT_720P = 5, **BLURAY_VIDEO_FORMAT_1080P** = 6, **BLURAY_VIDEO_FORMAT_576P** = 7 }
- enum **bd_video_rate_e** {
BLURAY_VIDEO_RATE_24000_1001 = 1, **BLURAY_VIDEO_RATE_24** = 2, **BLURAY_VIDEO_RATE_25** = 3, **BLURAY_VIDEO_RATE_30000_1001** = 4,
BLURAY_VIDEO_RATE_50 = 6, **BLURAY_VIDEO_RATE_60000_1001** = 7 }
- enum **bd_video_aspect_e** { **BLURAY_ASPECT_RATIO_4_3** = 2, **BLURAY_ASPECT_RATIO_16_9** = 3 }
- enum **bd_audio_format_e** { **BLURAY_AUDIO_FORMAT_MONO** = 1, **BLURAY_AUDIO_FORMAT_STEREO** = 3, **BLURAY_AUDIO_FORMAT_MULTI_CHAN** = 6, **BLURAY_AUDIO_FORMAT_COMBO** = 12 }

- enum **bd_audio_rate_e** {
BLURAY_AUDIO_RATE_48 = 1, **BLURAY_AUDIO_RATE_96** = 4,
BLURAY_AUDIO_RATE_192 = 5, **BLURAY_AUDIO_RATE_192_-COMBO** = 12,

BLURAY_AUDIO_RATE_96_COMBO = 14 }
- enum **bd_char_code_e** {
BLURAY_TEXT_CHAR_CODE_UTF8 = 0x01, **BLURAY_TEXT_-CHAR_CODE_UTF16BE** = 0x02, **BLURAY_TEXT_CHAR_CODE_-SHIFT_JIS** = 0x03, **BLURAY_TEXT_CHAR_CODE_EUC_KR** = 0x04,

BLURAY_TEXT_CHAR_CODE_GB18030_20001 = 0x05, **BLURAY_-TEXT_CHAR_CODE_CN_GB** = 0x06, **BLURAY_TEXT_CHAR_CODE_-BIG5** = 0x07 }
- enum **bd_still_mode_e** { **BLURAY_STILL_NONE** = 0x00, **BLURAY_-STILL_TIME** = 0x01, **BLURAY_STILL_INFINITE** = 0x02 }
- enum **bd_player_setting** {
BLURAY_PLAYER_SETTING_PARENTAL = 13, **BLURAY_PLAYER_-SETTING_AUDIO_CAP** = 15, **BLURAY_PLAYER_SETTING_AUDIO_-LANG** = 16, **BLURAY_PLAYER_SETTING_PG_LANG** = 17,

BLURAY_PLAYER_SETTING_MENU_LANG = 18, **BLURAY_-PLAYER_SETTING_COUNTRY_CODE** = 19, **BLURAY_PLAYER_-SETTING_REGION_CODE** = 20, **BLURAY_PLAYER_SETTING_-VIDEO_CAP** = 29,

BLURAY_PLAYER_SETTING_TEXT_CAP = 30, **BLURAY_PLAYER_-SETTING_PLAYER_PROFILE** = 31 }
- enum **bd_event_e** {
BD_EVENT_NONE = 0, **BD_EVENT_ERROR**, **BD_EVENT_-ENCRYPTED**, **BD_EVENT_ANGLE**,

BD_EVENT_TITLE, **BD_EVENT_PLAYLIST**, **BD_EVENT_PLAYITEM**,
BD_EVENT_CHAPTER,

BD_EVENT_END_OF_TITLE, **BD_EVENT_AUDIO_STREAM**, **BD_-EVENT_IG_STREAM**, **BD_EVENT_PG_TEXTST_STREAM**,

BD_EVENT_PIP_PG_TEXTST_STREAM, **BD_EVENT_SECONDARY_-AUDIO_STREAM**, **BD_EVENT_SECONDARY_VIDEO_STREAM**, **BD_-EVENT_PG_TEXTST**,

BD_EVENT_PIP_PG_TEXTST, **BD_EVENT_SECONDARY_AUDIO**,
BD_EVENT_SECONDARY_VIDEO, **BD_EVENT_SECONDARY_-VIDEO_SIZE**,

BD_EVENT_SEEK, **BD_EVENT_STILL**, **BD_EVENT_STILL_TIME** }

Functions

- uint32_t [bd_get_titles](#) (BLURAY *bd, uint8_t flags)
- [BLURAY_TITLE_INFO](#) * [bd_get_title_info](#) (BLURAY *bd, uint32_t title_idx)
- [BLURAY_TITLE_INFO](#) * [bd_get_playlist_info](#) (BLURAY *bd, uint32_t playlist)
- void [bd_free_title_info](#) ([BLURAY_TITLE_INFO](#) *title_info)
- BLURAY * [bd_open](#) (const char *device_path, const char *keyfile_path)
- void [bd_close](#) (BLURAY *bd)
- int64_t [bd_seek](#) (BLURAY *bd, uint64_t pos)
- int64_t [bd_seek_time](#) (BLURAY *bd, uint64_t tick)
- int [bd_read](#) (BLURAY *bd, unsigned char *buf, int len)
- int64_t [bd_seek_chapter](#) (BLURAY *bd, unsigned chapter)
- int64_t [bd_chapter_pos](#) (BLURAY *bd, unsigned chapter)
- uint32_t [bd_get_current_chapter](#) (BLURAY *bd)
- int64_t [bd_seek_mark](#) (BLURAY *bd, unsigned mark)
- int [bd_select_playlist](#) (BLURAY *bd, uint32_t playlist)
- int [bd_select_title](#) (BLURAY *bd, uint32_t title)
- int [bd_select_angle](#) (BLURAY *bd, unsigned angle)
- void [bd_seamless_angle_change](#) (BLURAY *bd, unsigned angle)
- uint64_t [bd_get_title_size](#) (BLURAY *bd)
- uint32_t [bd_get_current_title](#) (BLURAY *bd)
- unsigned [bd_get_current_angle](#) (BLURAY *bd)
- uint64_t [bd_tell](#) (BLURAY *bd)
- uint64_t [bd_tell_time](#) (BLURAY *bd)
- const [BLURAY_DISC_INFO](#) * [bd_get_disc_info](#) (BLURAY *)
- int [bd_set_player_setting](#) (BLURAY *bd, uint32_t idx, uint32_t value)
- int [bd_set_player_setting_str](#) (BLURAY *bd, uint32_t idx, const char *s)
- int [bd_start_bdj](#) (BLURAY *bd, const char *start_object)
- void [bd_stop_bdj](#) (BLURAY *bd)
- int [bd_get_event](#) (BLURAY *bd, [BD_EVENT](#) *event)
- int [bd_play](#) (BLURAY *bd)
- int [bd_read_ext](#) (BLURAY *bd, unsigned char *buf, int len, [BD_EVENT](#) *event)
- int [bd_play_title](#) (BLURAY *bd, unsigned title)
- int [bd_menu_call](#) (BLURAY *bd, int64_t pts)
- void [bd_register_overlay_proc](#) (BLURAY *bd, void *handle, bd_overlay_proc_f func)
- void [bd_user_input](#) (BLURAY *bd, int64_t pts, uint32_t key)
- void [bd_mouse_select](#) (BLURAY *bd, int64_t pts, uint16_t x, uint16_t y)
- struct meta_dl * [bd_get_meta](#) (BLURAY *bd)

4.1.1 Detailed Description

external API header

4.1.2 Define Documentation

4.1.2.1 `#define TITLES_ALL 0`

all titles.

4.1.2.2 `#define TITLES_FILTER_DUP_CLIP 0x02`

remove titles that have duplicate clips.

4.1.2.3 `#define TITLES_FILTER_DUP_TITLE 0x01`

remove duplicate titles.

4.1.2.4 `#define TITLES_RELEVANT (TITLES_FILTER_DUP_TITLE | TITLES_FILTER_DUP_CLIP)`

remove duplicate titles and clips

4.1.3 Function Documentation

4.1.3.1 `int64_t bd_chapter_pos (BLURAY * bd, unsigned chapter)`

Find the byte position of a chapter

Parameters

bd BLURAY object

chapter chapter to find position of

Returns

seek position of chapter start

4.1.3.2 void bd_close (BLURAY * *bd*)

Free libbluray objects

Parameters

bd BLURAY object

4.1.3.3 void bd_free_title_info (BLURAY_TITLE_INFO * *title_info*)

Free BLURAY_TITLE_INFO object

Parameters

title_info BLURAY_TITLE_INFO object

4.1.3.4 unsigned bd_get_current_angle (BLURAY * *bd*)

Return the current angle

Parameters

bd BLURAY object

Returns

current angle

4.1.3.5 uint32_t bd_get_current_chapter (BLURAY * *bd*)

Get the current chapter

Parameters

bd BLURAY object

Returns

current chapter

4.1.3.6 uint32_t bd_get_current_title (BLURAY * *bd*)

Returns the current title index

Parameters

bd BLURAY object

Returns

current title index

4.1.3.7 const BLURAY_DISC_INFO* bd_get_disc_info (BLURAY *)

Get information about current BluRay disc

Parameters

bd BLURAY object

Returns

pointer to [BLURAY_DISC_INFO](#) object, NULL on error

4.1.3.8 int bd_get_event (BLURAY * *bd*, BD_EVENT * *event*)

Get event from libbluray event queue.

Parameters

bd BLURAY object

event next [BD_EVENT](#) from event queue

Returns

1 on success, 0 if no events

4.1.3.9 struct meta_dl* bd_get_meta (BLURAY * *bd*) [read]

Get meta information about the bluray disc.

Parameters

bd BLURAY object

Returns

allocated META_DL (disclib) object, NULL on error

4.1.3.10 **BLURAY_TITLE_INFO*** `bd_get_playlist_info (BLURAY * bd, uint32_t playlist)`

Get information about a playlist

Parameters

bd BLURAY object
playlist playlist number

Returns

allocated BLURAY_TITLE_INFO object, NULL on error

4.1.3.11 **BLURAY_TITLE_INFO*** `bd_get_title_info (BLURAY * bd, uint32_t title_idx)`

Get information about a title

Parameters

bd BLURAY object
title_idx title index number

Returns

allocated BLURAY_TITLE_INFO object, NULL on error

4.1.3.12 **uint64_t** `bd_get_title_size (BLURAY * bd)`

Returns file size in bytes of currently selected title, 0 in no title selected

Parameters

bd BLURAY object

Returns

file size in bytes of currently selected title, 0 if no title selected

4.1.3.13 uint32_t bd_get_titles (BLURAY * *bd*, uint8_t *flags*)

This must be called after [bd_open\(\)](#) and before [bd_select_title\(\)](#). Populates the title list in BLURAY. Filtering of the returned list is controled through title flags

Parameters

bd BLURAY object

flags title flags

Returns

number of titles found

4.1.3.14 int bd_menu_call (BLURAY * *bd*, int64_t *pts*)

Open BluRay disc Top Menu.

Current pts is needed for resuming playback when menu is closed.

Parameters

bd BLURAY object

pts current playback position (1/90000s) or -1

Returns

1 on success, 0 if error

4.1.3.15 void bd_mouse_select (BLURAY * *bd*, int64_t *pts*, uint16_t *x*, uint16_t *y*)

Select menu button at location (x,y).

Parameters

bd BLURAY object

pts current playback position (1/90000s) or -1

x mouse pointer x-position

y mouse pointer y-position

Returns

none

4.1.3.16 **BLURAY*** `bd_open (const char * device_path, const char * keyfile_path)`

Initializes libbluray objects

Parameters

device_path path to mounted Blu-ray disc

keyfile_path path to KEYDB.cfg (may be NULL)

Returns

allocated BLURAY object, NULL if error

4.1.3.17 **int** `bd_play (BLURAY * bd)`

Start playing disc in navigation mode.

Playback is started from "First Play" title.

Parameters

bd BLURAY object

Returns

1 on success, 0 if error

4.1.3.18 **int** `bd_play_title (BLURAY * bd, unsigned title)`

Play a title (from disc index).

Title 0 = Top Menu Title 0xffff = First Play title Number of titles can be found from [BLURAY_DISC_INFO](#).

Parameters

bd BLURAY object

title title number from disc index

Returns

1 on success, 0 if error

4.1.3.19 int bd_read (BLURAY * *bd*, unsigned char * *buf*, int *len*)

Read from currently selected title file, decrypt if possible

Parameters

bd BLURAY object
buf buffer to read data into
len size of data to be read

Returns

size of data read, -1 if error

4.1.3.20 int bd_read_ext (BLURAY * *bd*, unsigned char * *buf*, int *len*, BD_EVENT * *event*)

Read from currently playing title.

When playing disc in navigation mode this function must be used instead of [bd_read\(\)](#).

Parameters

bd BLURAY object
buf buffer to read data into
len size of data to be read
event next [BD_EVENT](#) from event queue (BD_EVENT_NONE if no events)

Returns

size of data read, -1 if error, 0 if event needs to be handled first, 0 if end of title was reached

4.1.3.21 void bd_register_overlay_proc (BLURAY * *bd*, void * *handle*, bd_overlay_proc_f *func*)

Register overlay graphics handler function.

Parameters

bd BLURAY object
handle application-specific handle that will be passed to handler function
func handler function pointer

Returns

1 on success, 0 if error

4.1.3.22 void bd_seamless_angle_change (BLURAY * *bd*, unsigned *angle*)

Initiate seamless angle change

Parameters

bd BLURAY object
angle angle to change to

4.1.3.23 int64_t bd_seek (BLURAY * *bd*, uint64_t *pos*)

Seek to pos in currently selected title

Parameters

bd BLURAY object
pos position to seek to

Returns

current seek position

4.1.3.24 int64_t bd_seek_chapter (BLURAY * *bd*, unsigned *chapter*)

Seek to a chapter. First chapter is 0

Parameters

bd BLURAY object
chapter chapter to seek to

Returns

current seek position

4.1.3.25 int64_t bd_seek_mark (BLURAY * *bd*, unsigned *mark*)

Seek to a playmark. First mark is 0

Parameters

bd BLURAY object

mark playmark to seek to

Returns

current seek position

4.1.3.26 int64_t bd_seek_time (BLURAY * *bd*, uint64_t *tick*)

Seek to specific time in 90Khz ticks

Parameters

bd BLURAY object

tick tick count

Returns

current seek position

4.1.3.27 int bd_select_angle (BLURAY * *bd*, unsigned *angle*)

Set the angle to play

Parameters

bd BLURAY object

angle angle to play

Returns

1 on success, 0 if error

4.1.3.28 int bd_select_playlist (BLURAY * *bd*, uint32_t *playlist*)

Select a playlist

Parameters

bd BLURAY object

playlist playlist to select

Returns

1 on success, 0 if error

4.1.3.29 `int bd_select_title (BLURAY * bd, uint32_t title)`

Select the title from the list created by [bd_get_titles\(\)](#)

Parameters

bd BLURAY object

title title to select

Returns

1 on success, 0 if error

4.1.3.30 `int bd_set_player_setting (BLURAY * bd, uint32_t idx, uint32_t value)`

Update player setting registers

Parameters

bd BLURAY object

idx Player setting register

value New value for player setting register

Returns

1 on success, 0 on error (invalid setting)

4.1.3.31 `uint64_t bd_tell (BLURAY * bd)`

Return current pos

Parameters

bd BLURAY object

Returns

current seek position

4.1.3.32 uint64_t bd_tell_time (BLURAY * *bd*)

Return current time

Parameters

bd BLURAY object

Returns

current time

4.1.3.33 void bd_user_input (BLURAY * *bd*, int64_t *pts*, uint32_t *key*)

Pass user input to graphics controller. Keys are defined in libbluray/keys.h. Current pts can be updated by using BD_VK_NONE key. This is required for animated menus.

Parameters

bd BLURAY object

pts current playback position (1/90000s) or -1

key input key

Returns

1 on success, 0 if error

Index

bd_chapter, [5](#)
bd_chapter_pos
 [bluray.h, 13](#)
bd_clip, [5](#)
bd_close
 [bluray.h, 13](#)
BD_EVENT, [6](#)
bd_free_title_info
 [bluray.h, 14](#)
bd_get_current_angle
 [bluray.h, 14](#)
bd_get_current_chapter
 [bluray.h, 14](#)
bd_get_current_title
 [bluray.h, 14](#)
bd_get_disc_info
 [bluray.h, 15](#)
bd_get_event
 [bluray.h, 15](#)
bd_get_meta
 [bluray.h, 15](#)
bd_get_playlist_info
 [bluray.h, 15](#)
bd_get_title_info
 [bluray.h, 16](#)
bd_get_title_size
 [bluray.h, 16](#)
bd_get_titles
 [bluray.h, 16](#)
bd_menu_call
 [bluray.h, 17](#)
bd_mouse_select
 [bluray.h, 17](#)
bd_open
 [bluray.h, 17](#)
bd_play
 [bluray.h, 18](#)
bd_play_title
 [bluray.h, 18](#)
bd_read
 [bluray.h, 18](#)
bd_read_ext
 [bluray.h, 19](#)
bd_register_overlay_proc
 [bluray.h, 19](#)
bd_seamless_angle_change
 [bluray.h, 19](#)
bd_seek
 [bluray.h, 20](#)
bd_seek_chapter
 [bluray.h, 20](#)
bd_seek_mark
 [bluray.h, 20](#)
bd_seek_time
 [bluray.h, 21](#)
bd_select_angle
 [bluray.h, 21](#)
bd_select_playlist
 [bluray.h, 21](#)
bd_select_title
 [bluray.h, 21](#)
bd_set_player_setting
 [bluray.h, 22](#)
bd_stream_info, [6](#)
bd_tell
 [bluray.h, 22](#)
bd_tell_time
 [bluray.h, 22](#)
bd_title_info, [7](#)
bd_user_input
 [bluray.h, 23](#)
bluray.h
 bd_chapter_pos, [13](#)
 bd_close, [13](#)

bd_free_title_info, 14
bd_get_current_angle, 14
bd_get_current_chapter, 14
bd_get_current_title, 14
bd_get_disc_info, 15
bd_get_event, 15
bd_get_meta, 15
bd_get_playlist_info, 15
bd_get_title_info, 16
bd_get_title_size, 16
bd_get_titles, 16
bd_menu_call, 17
bd_mouse_select, 17
bd_open, 17
bd_play, 18
bd_play_title, 18
bd_read, 18
bd_read_ext, 19
bd_register_overlay_proc, 19
bd_seamless_angle_change, 19
bd_seek, 20
bd_seek_chapter, 20
bd_seek_mark, 20
bd_seek_time, 21
bd_select_angle, 21
bd_select_playlist, 21
bd_select_title, 21
bd_set_player_setting, 22
bd_tell, 22
bd_tell_time, 22
bd_user_input, 23
TITLES_ALL, 13
TITLES_FILTER_DUP_CLIP, 13
TITLES_FILTER_DUP_TITLE, 13
TITLES_RELEVANT, 13
BLURAY_DISC_INFO, 7

src/libbluray/bluray.h, 9

TITLES_ALL
 bluray.h, 13
TITLES_FILTER_DUP_CLIP
 bluray.h, 13
TITLES_FILTER_DUP_TITLE
 bluray.h, 13
TITLES_RELEVANT